Memo

Quality Control

| DQA: | | | Date: | | | | | | | | | | | | |
|---------------|-----|------------|------------|-------------|-------|------------------------------|-----|---------------------|----------------------|-----------|----------|---------------|---------------|-------------|--------------------|
| | | | | | | WORK ORDER NON- | -CC | ONFO | RMANCE / UPD | | | | | | AEROSPACE |
| QA Closed: | | | Date: | | | | | | | \ | Vо | rk Order up | date only | | |
| Work Orde | ٠, | | | | | DISPOSITION | | | | | | | | | |
| WOIK OIGE | | | | , | — [| Rework | ıl | Skid-tube Crosstube | | | \neg | | Water Je | t \square | Engineering |
| Part N | lo. | | | | | Scrap | | | — | Small Fab | \dashv | Pro | d. Eng. Coor | \vdash | Quality |
| | • | | | | | Use-as-is | | | noforming | Finishing | ┪ | | e/Packaging | - | Other |
| NCR N | lo. | | | | | Suspected Unapproved | | | Large Fab C | Composite | | | Supplie | r | |
| Root | | | | | Desci | ription of work order update | | nitial | Action |) | T | Sign & | | | |
| Cause | ŀ | Date | Step | Qty | | or non-conformance | Ch | ief Eng | Descript | ion | | Date | Verification | on | QC Inspector |
| Design | Ì | | | | | | | | | | | | | | |
| Doc/Data | | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | | | |
| Handling/Pre | | | | | | | | | | | | | | | |
| Material . | | | | | | | | | | | | | | | |
| Operator | | | | | | | | | | | | | | | |
| Offset/Setup | | | | | | | | | • | | | | | | ļ |
| Process | | | | | | | | | | | | | | | |
| Supplier | | | | | | | İ | | | | | | | | |
| Training | _ | | | | | | - | | | | | | | | |
| Transport | | | ļ | | | | İ | | | | | | | | |
| Unapproved | | | | | | | EAL | HIT CA | TEGORY | | _1 | <u></u> | l | | |
| 1 | | | | | | General | rA | OLI CA | IEGONI | | | | | | |
| Landii | | Bending | | | | Bend | |]Folio/I | Program | Γ | \neg | Outside Dim | ensions | Г | Pressure/Forced |
| | | Centre No | nt Concer | ntric | | BOM/Route | | Grain | 10810 | - | - | Over/Under | | \vdash | Set-up |
| | | Cracks | or concer | 11.10 | | Broken/Damage/Defect | | Hardwa | are | ŀ | | Part Incorred | | | Temperature/Cure |
| . ! | - | Crimp/Kir | nk/Rinnle | /Wave | | Burrs | | 4 | ion Incomplete/Unqu | alified | | Part Lost/Mi | | | Weld |
| و | | Cuffs | | , | | Contamination | | 1 ' | tions Incomplete/Unc | <u> </u> | \dashv | Part Moved | - | | Wrong Stock Pulled |
| | | Crushing | | | | Countersink | | 4 | gned/off center | ļ | | Positioned V | Vrong | | |
| | 7. | Heat Trea | it | | | Cut Too Short | | Mislab | - | ļ | | Power Loss/ | Surge | | Other |
| | | Inspection | | Tube | | Drawing | | Misrea | d | - | | | | | |
| · ' | | Marks/Ch | • | | | Drill Holes | Г | Off-set | | | - | | , , , , , , , | | |
| | | Turning S | | | | Finish | | Out of | Calibration | | _ | | | | |
| | | Wave/Tw | ist in Tub | e | | Fit/Function | | Out of | Sequence | | | | | | |

| Work Ord April-24-14 9: | | 17044 | | *117 | 7044* | | | | | | | Page 2 |
|-------------------------------|-----------|---|--------------------|----------------------|------------------|--------|--------------|---------------|------------|-------|------------------|----------------|
| Item ID: Revision ID: | D3403-5 | | | Accept | *N900 | 040 | 100 |) * | Setup | | *N | S1* |
| Item Name: | Bushing | | | | | | | | | Stop | *N | S2* |
| Start Date: | 4/23/14 | Start Qty: 25.00 | *25 | * | Cust Item I | D: | | | | | | |
| Required Date | : 4/23/14 | Req'd Qty: 25.00 | *25 | | Customer: | | | | | | | |
| Reference: | | | | | | | | | | | | |
| Approvals: | Process P | lan: | Date: | Tooling: | Da | ate: | | J | Run | Start | *N | R1* |
| | QC: | | Date: | SPC (Y/N): | D: | ate: | | | | Stop | *N | R2* |
| Sequence ID/ Work Center I | D | Operation Description Identify as per dwg & Sto | ock Location: A C | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Rej Qty | | Reject Number | Insp. Stamp |
| *120* Packaging Packaging | | Мето | 0 , | 0.00 | | | | 30 x | | (| 14- | 5-26. |
| 140 | | QC21- Final Inspection - | Work Order Release | 0.00 | | | | | | | | |
| *140* | | Memo | | 0.00 | | | | M | <u>5_</u> | 14-0 | S-7 | <u>}</u> |

Memo

Quality Control

MUS-145-26

| DQA: | | | Date: | | | $\mathcal{L}_{\mathcal{A}}$ | | | | | | | |
|--------------------------|------------|------------|------------|-------|--------------|------------------------------|----------|------------|----------------------------|----------|--------------|---------------|--------------------|
| | | | | | | WORK ORDER NON- | -CC | ONFO | RMANCE / UPDATE | | | | AEROSPACE |
| QA Closed: | | | Date: | | | | | | | W | ork Order up | date only | |
| Mork Orde | | | | | | DISPOSITION | | | AGAINST | | | | |
| Work Orde | er: - | | | | - | Rework | ıÌ | | Skid-tube Crosstube | | 1 | Water Jet | Engineering |
| Part N | J۵ | | | | | Scrap | | | Machining Small Fab | _ | Pro | d. Eng. Coor. | Quality |
| T GILL | •••• | | | | | Use-as-is | | | noforming Finishing | - | | re/Packaging | Other |
| NCR N | 10. | | | | | Suspected Unapproved | | | Large Fab Composite | \vdash | · | Supplier | |
| | | | | | | | | | | | | | |
| Root | | | | | Desci | ription of work order update | | nitial | Action | | Sign & | ., | 001 |
| Cause | _ | Date | Step | Qty | | or non-conformance | Ch | ief Eng | Description | | Date | Verification | QC Inspector |
| Design | | | | | | | | | | | | | |
| Doc/Data | | : | | | | | | | | | | | |
| Equip/Tooling | - | | | | | | | | | | | | |
| Handling/Pre | \dashv | | | | | | | | | | | | |
| Material | \dashv | | | | | | | | | | | | |
| Operator Offset/Setup | \dashv | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | |
| Supplier | | | | | : | | | | | | | | |
| Training | \dashv | | | | | | | | | | | | |
| Transport | | ! | | | | | | | | | | | |
| Unapproved | | | | | 1 | | | | | | | _ | |
| | | | | | | | FA | ULT CA | TEGORY | | · | | |
| Landi | ng G | iear | | | | General | | _ | | | - | | |
| | | Bending | | | | Bend | | Folio/F | Program | <u> </u> | Outside Dim | <u>-</u> | Pressure/Forced |
| | | Centre No | t Concer | ntric | _ | BOM/Route | | Grain | | | Over/Under | <u> </u> | Set-up |
| | | Cracks | | | | Broken/Damage/Defect | | Hardwa | | _ | Part Incorre | - | Temperature/Cure |
| | | Crimp/Kir | k/Ripple | /Wave | | Burrs | L | 1 ' | ion Incomplete/Unqualified | <u> </u> | Part Lost/M | issing | Weld |
| | \vdash | Cuffs | | | | Contamination | <u> </u> | 4 | tions Incomplete/Unclear | <u> </u> | Part Moved | L | Wrong Stock Pulled |
| | | Crushing | | | <u> </u> | Countersink | <u> </u> | † ` | gned/off center | - | Positioned V | | 7 |
| ļ | Ľ | Heat Trea | | | | Cut Too Short | \vdash | Mislabe | | | Power Loss/ | Surge | Other |
| | | Inspection | | Tube | \vdash | Drawing | <u> </u> | Misrea | | | | | |
| | lacksquare | Marks/Ch | | | \vdash | Drill Holes | _ | Off-set | | | · · | | |
| | | Turning S | | | <u> </u> | Finish | <u> </u> | 4 | Calibration | | | - | |
| 1 | l | Wave/Tw | ist in Tub | e | - 1 | Fit/Function | 1 | Out of | Sequence | | | | |

Picklist Print

April-24-14 9:10:34 AM

Page 1

Work Order ID: 117044

117044

Parent Item:

D3403-5

D3403-5

Parent Item Name: Bushing

Start Date: 4/23/14

Required Date: 4/23/14

Start Qty: 25.00

Required Qty: 25.00

Comments:

IPP REV:A NEW ISSUE 10-04-23 JLM VERIFIED BY:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | • | ast ocation | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|-----------------|----------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|------------|
| M303R0.750 | | Purchased | No | | | 100 | f | 149.1450 | 0.25 | 6.578948 | 3 | | DAS |
| *M303R0 303 Round Bar 0.750 | 750* | | | | | | | | ** | 14- | 5-22 | | 13 9-89 |
| • | | | | Location | | Loc (| <u>Oty</u> | Loc Code | | | | | |
| | | | | MAT028 | | 149. | 145 | | _ | | | | |
| | | | | m12 | 27464 | 52. | .645 | | | | | | |

96.5

129237

m128882

DAS 13

| DQA: | | | Date: | | | TAART | | | | | | | | |
|---------------|-----|-----------|------------|----------|-------|------------------------------|-----|--------------|----------------------------|--|--------------|---------------|------------------|--------------------|
| | | | | | | WORK ORDER NON | -CC | ONFO | RMANCE / UPDATE | | | | _ | AEROSPACE |
| QA Closed: | | | Date: | | | | | | | W | ork Order up | odate only | | |
| Work Orde | · · | | | | | DISPOSITION | | | AGAINST | | | | | |
| WORK OTUE | :1. | N= | · · · · | | | Rework | 1 I | | Skid-tube Crosstube | | | Water Jet | \neg | Engineering |
| Part N | lo. | | | | | Scrap | | | Machining Small Fab | - | Pro | d. Eng. Coor. | ┪ | Quality |
| | • | | | | | Use-as-is | | | noforming Finishing | <u>, </u> | Rec/Sto | re/Packaging | | Other |
| NCR N | 10. | | | | | Suspected Unapproved | 1 | | Large Fab Composite | | | Supplier | | |
| Root | | | | | Desci | ription of work order update | | nitial | Action | - | Sign & | | | |
| Cause | | Date | Step | Qty | | or non-conformance | Ch | ief Eng | Description | | Date | Verification | 4 | QC Inspector |
| Design | | | | | | • • | | | | | | | | |
| Doc/Data | | | | | | | | | | | | | | |
| Equip/Tooling | | | | | | | | | | | | | İ | |
| Handling/Pre | | | | | | | | | | | | | | |
| Material | | | | | | | | | į | | | | | |
| Operator | | | | | | | | | | | | ļ | | |
| Offset/Setup | | | | | | | | | | | | | | |
| Process | | | | | | | | | | | | | | |
| Supplier | _ | | <u> </u> | | · | | | | | | | | | |
| Training _ | | | | | | | | | | | | | | |
| Transport | | | | | | | | | | | | | | |
| Unapproved | | | | <u> </u> | | | ΕΛ | TILL CV. | TEGORY | | ! | <u> </u> | | |
| Landi | | Poor | | | | General | | OLI CA | ILGONI | | - | | | |
| Landi | _ | Bending | | | | Bend | Г |] Folio/F | Program | Г | Outside Dim | ensions [| 7, | Pressure/Forced |
| [] | | Centre No | ot Concer | ntric | | BOM/Route | | Grain | | | Over/Under | - | | Set-up |
| | | Cracks | 001.001 | 11110 | | Broken/Damage/Defect | | Hardwa | are | T | Part Incorre | ci T | _ | Temperature/Cure |
| | | Crimp/Kir | nk/Ripple | /Wave | - | Burrs | | 4 | ion Incomplete/Unqualified | | Part Lost/M | issing | \neg \ | Weld |
| | | Cuffs | | , | | Contamination | | -1 | tions Incomplete/Unclear | | Part Moved | . [| \neg \cdot | Wrong Stock Pulled |
| | ├ | Crushing | | | | Countersink | | 4 | gned/off center | Γ | Positioned V | Vrong _ | | |
| | | Heat Trea | at | | | Cut Too Short | | Mislab | - | | Power Loss/ | /Surge | \Box | Other |
| | | Inspectio | n Strip in | Tube | | Drawing | | Misrea | d | | | | | |
| | | Marks/Ch | natter | | | Drill Holes | | Off-set | | | | | | |
| | | Turning S | equence | | - | Finish | | Out of | Calibration | | | | | |
| | | Wave/Tw | ist in Tub | oe . | | Fit/Function | | Out of | Sequence | | | | | |

| DART AEROSPACE LTD | Work Order: | 117044 |
|------------------------------|--------------|-------------|
| Description: Bushing | Part Number: | D3403-5 |
| Inspection Dwg: D3403 Rev: D | | Page 1 of 1 |

FIRST ARTICLE INSPECTION CHECKLIST

| Drawing Dimension | Tolerance | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|----------------------|---------------|------------------|--------|--------|-------------------------|----------|
| Ø0.750 | +/-0.010 | -750 | | | | |
| Ø0.257 | +0.010/-0.000 | -259 | | | | |
| 0.060 | +/-0.005 | -035 | | | | |
| 2.440 | +0.010/-0.000 | 7.440 | | | | |
| Ø0.313 x 60° | +/-0.010 | 310x68 | / | | | |
| Ø0.425 | +0.000/-0.002 | 425 | | | | |
| 0.030 x 20° | +/-0.010 | 03x20° | | | | |
| R0.010 | +/-0.010 | 12.015 | | | | |
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| Measured by: | జ్ఞ చేస్తే Audited by: | DAS 25 | Preliminary Approval: | |
|--------------|------------------------|--------------|-----------------------|--|
| Date: /4-5 | Date: | 9-89 14-5-26 | Date: | |

| Rev | Date | Change | Revised by | Approved |
|-----|----------|---------------------------|------------|---|
| Α | 11.02.23 | New Issue | KJ | |
| В | 12.02.01 | Dimension 2.440 was 2.500 | KJ OW | |
| | | | 771 | 147 |

